

Notice of Allowability

Application No.

10/634,896

Examiner

Kamran Afshar, 571-272-7796

Applicant(s)

KIM, BONG HOE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/22/2005.
2. ☒ The allowed claim(s) is/are 48-56.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Kamran Afshar, 571-272-7796
Patent Examiner
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DETAILED ACTION

1. Examiner acknowledge that applicant cancelled claims 1-47.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Daniel Y.J. Kim Reg. No.: 36186 on 1/11/2006.

The application has been amended as follows:

In The Claim(s):

55. (Amended) A method of transmitting a cell ID code in a mobile communication system, in which a primary cell is recognized by receiving a primary cell ID code from a terminal, the method comprising:

receiving a plurality of 16-bit temporary cell ID codes from a control center;

measuring a power of a Common Pilot Channel (CPICH) for active cells that transmit for site selection diversity transmission (SSDT);

selecting a 16-bit temporary cell ID code with the a strongest power of the CPICH according to the measuring;

puncturing two '0' bits of the selected 16-bit temporary cell ID code to generate a 14-bit primary cell ID code having one of the following bit configurations with the punctured bits indicated in parentheses:

A: (0)000 0000 (0)000 0000

B: (0)000 1111 (0)000 1111

C: (0)101 0101 (0)101 0101

D: (0)101 1010 (0)101 1010

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E: (0)011 0011 (0)011 0011

F: (0)011 1100 (0)011 1100

G: (0)110 0110 (0)110 0110

H: (0)110 1001 (0)110 1001

transmitting the selected 16-bit temporary cell ID code via a 2-bit feedback information (FBI) field of the first 8 slots of one radio frame; and

transmitting the generated 14-bit primary cell ID code via a 2-bit FBI field of the last 7 slots of the one radio frame.

Allowable Subject Matter

3. Claims 48-56 are allowed.

The following is an examiner's statement of reasons for allowance: 48-56.

With respect to claims 48, 54, the prior art of record fails to disclose singly or in combination or render obvious that measuring a power of a Common Pilot Channel (CPICH) of a cell; selecting a temporary cell ID code with a strongest power of the CPICH of the cell; checking whether and / or if the selected temporary cell ID code has a length of 16-bits; checking whether feedback information (FBI) bits are 2 bits, if the detected temporary cell ID code has the length of 16-bits; puncturing two '0' bits in the selected temporary cell ID code to generate a primary cell ID code having one of the following bit configuration with the punctured bits indicated in parentheses: (i.e. as recited in the claim(s)); and transmitting the selected 16-bit temporary cell ID code through a 2-bit FBI field of the first 8 slots of one radio frame and transmitting the 14-bit punctured primary cell ID codes through a 2-bit FBI field of the last 7 slots of the radio frame.

With respect to claim 55, the prior art of record fails to disclose singly or in combination or render obvious that measuring a power of a Common Pilot Channel (CPICH) for active cells that transmit for site selection diversity transmission (SSDT); selecting a 16-bit temporary cell ID code with a strongest power of the CPICH according to the measuring; puncturing two '0' bits in the selected 16-bit temporary cell ID code to generate a 14-bit primary cell ID code having one of the following bit configuration with the

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punctured bits indicated in parentheses: (i.e. as recited in the claim(s)); and transmitting the selected 16-bit temporary cell ID code via a 2-bit FBI field of the first 8 slots of one radio frame; and transmitting the generated 14-bit punctured primary cell ID codes via a 2-bit FBI field of the last 7 slots of the radio frame.

With respect to claim 56, the prior art of record fails to disclose singly or in combination or render obvious that measuring a power of a Common Pilot Channel (CPICH) of a cell; selecting a temporary cell ID code with a strongest power of the CPICH of the cell; checking whether and / or if the selected temporary cell ID code has a length of 16-bits, checking whether a feedback information (FBI) field has a length of 2 bits; transmitting the selected 16-bit temporary cell ID code via a 2-bit FBI field of the first 8 slots of one radio frame; puncturing two '0' bits in the selected temporary cell ID code to generate a primary cell ID code having one of the following configuration with the punctured bits indicated in parentheses: (i.e. as recited in the claim(s)); and transmitting the generated primary cell ID code via a 2-bit FBI field of the last 7 slots of the one radio frame.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Hwang (U.S. Pub. No.: 2002/0115464 A1).

b) Hwang (U.S. Pub. No.: 2002/0077141 A1).

c) Wu (U.S. Pub. No.: 2003/0231608 A1).


Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kamran Afshar whose telephone number is (571) 272-7796. The examiner can be reached on Monday-Friday.

If attempts to reach the examiner by the telephone are unsuccessful, the examiner's supervisor, **Feild, Joseph** can be reached @ (571) 272-4090. The fax number for the organization where this application or proceeding is assigned is **571-273-8300** for all communications.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Kamran Afshar


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER